

## Process for recovering a dissolved ionic substance

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## Abstract of DE3812183

Ionic substances can be separated off from possibly contaminated aqueous solutions by diffusion dialysis or electrodialysis; the pure solution obtained has a lower concentration than the solution introduced. A large membrane surface area is required for the diffusion dialysis. By means of the novel process, a pure solution of the ionic substance is obtained, the concentration of which is exactly as high as, or higher than, concentrations of the contaminated solution introduced. Moreover, only a moderately high membrane surface area is required for the diffusion dialysis. In the novel process, with respect to the donor streams, a diffusion dialysis stage and an electrodialysis stage are connected in parallel; a further electrodialysis stage is provided downstream of both stages. With respect to the acceptor streams, both electrodialysis stages are connected one after the other; the diffusion dialysis stage is connected in parallel to an electrodialysis stage. Recovery of concentrated pure solutions of organic and inorganic acids and liquors from solutions contaminated by nonionic substances, e.g. sulphuric acid or maleic acid from filtered fermenter broth.

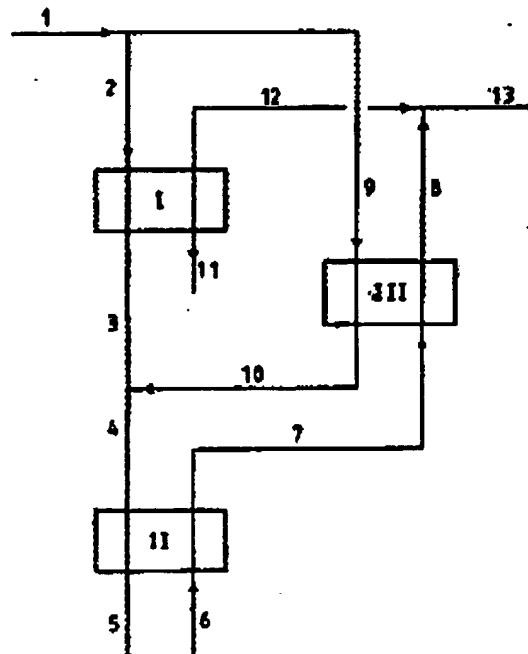


Fig. 1

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